

# WORLD TB DAY 2016

March 24, 2016 12-1:30pm



## Agenda

- 🌐 12:00pm State of TB in the Commonwealth— Suzanne J. Keller, MA
- 🌐 12:15pm Ramadan: How to manage DOT?— Mehrima Matrood
- 🌐 12:35pm Video Enhanced Therapy— Deborah Staley, RN MPH
- 🌐 12:55pm Improving TB Outcomes for Diabetics— Scott Heysell, MD
- 🌐 1:15pm Program Updates— Denise Dodge, RN TB Control Assistant Director

# Global, National and Virginia TB Epidemiology Update

Suzanne J. Keller, MA  
TB Epidemiologist  
Virginia Department of Health

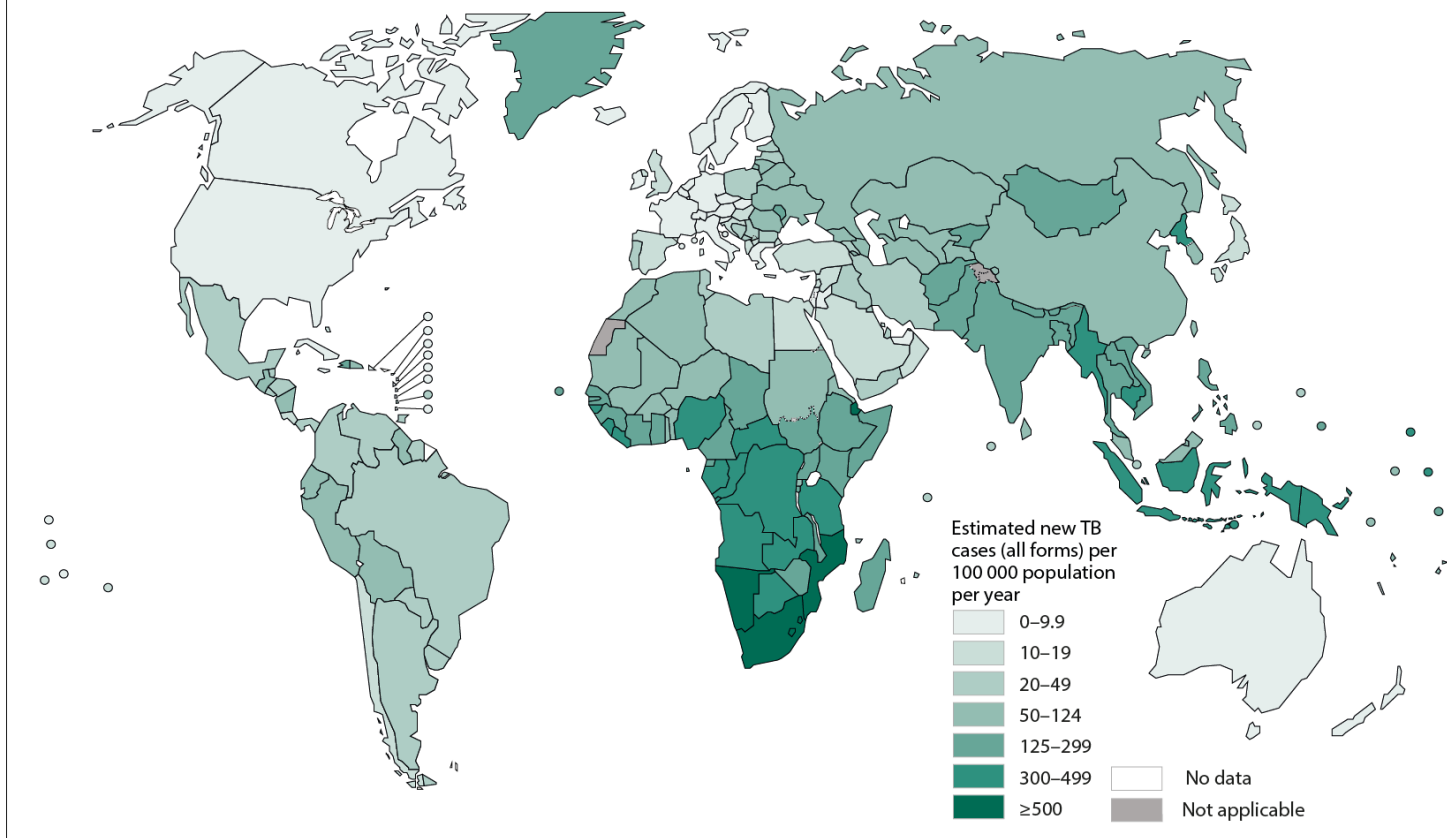
# Global TB: We are all connected

- WHO describes 2015 as a watershed year for TB control
- TB incidence is 18% lower than it was in 2000
- Effective diagnosis and treatment of TB saved an estimated 43 million lives between 2000 and 2014
- Shift in strategy to the goal of ending TB

# The World Health Organization End TB Strategy Goals

- Reduction by 95% in the number of TB deaths (compared to 2015) by 2035
- Reduction by 90% in the TB incidence rate by 90%

## Estimated TB incidence rates, 2014



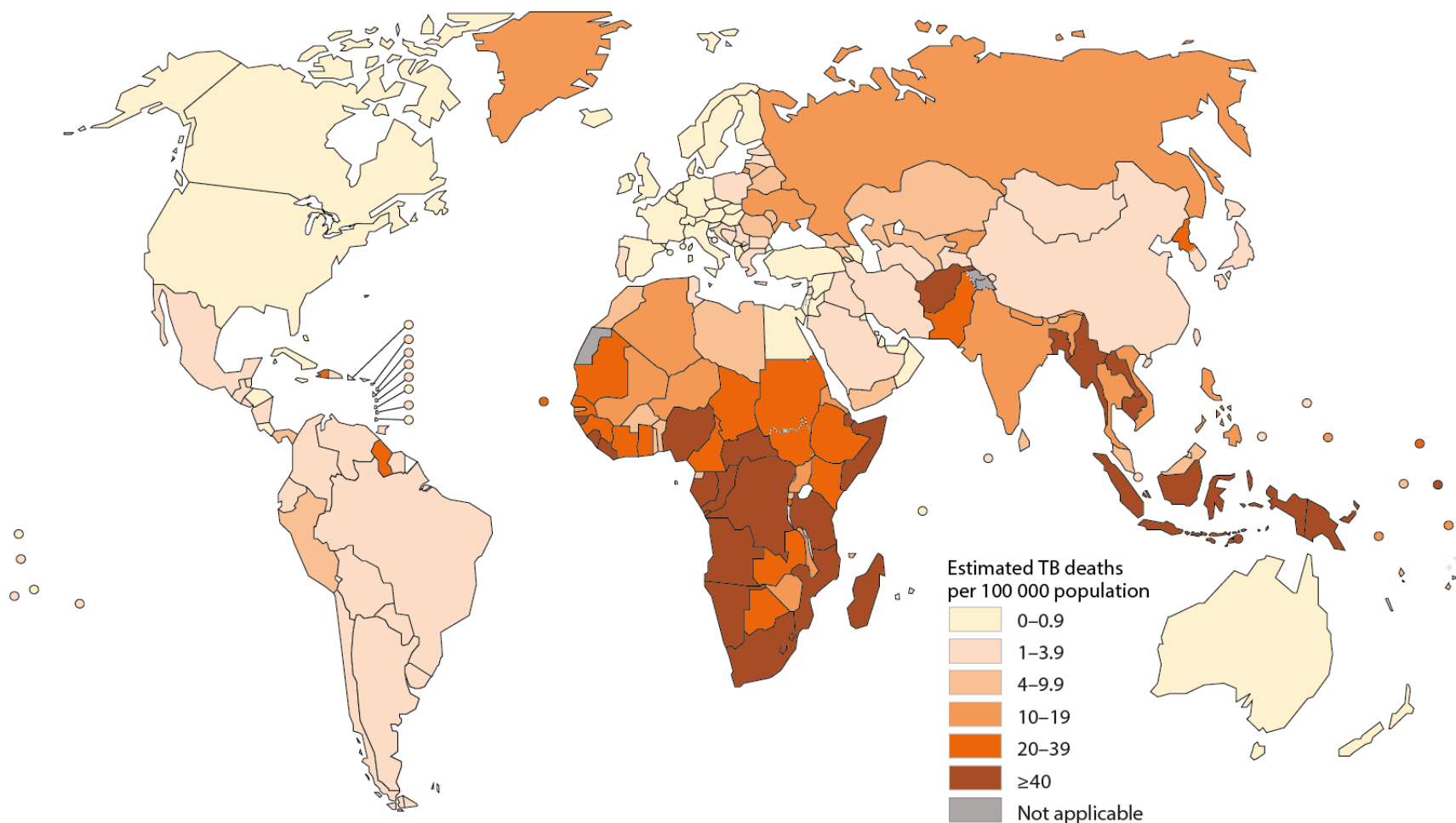
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Data Source: *Global Tuberculosis Report 2015*. WHO, 2015.

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## Estimated TB mortality rates excluding TB deaths among HIV-positive people, 2014

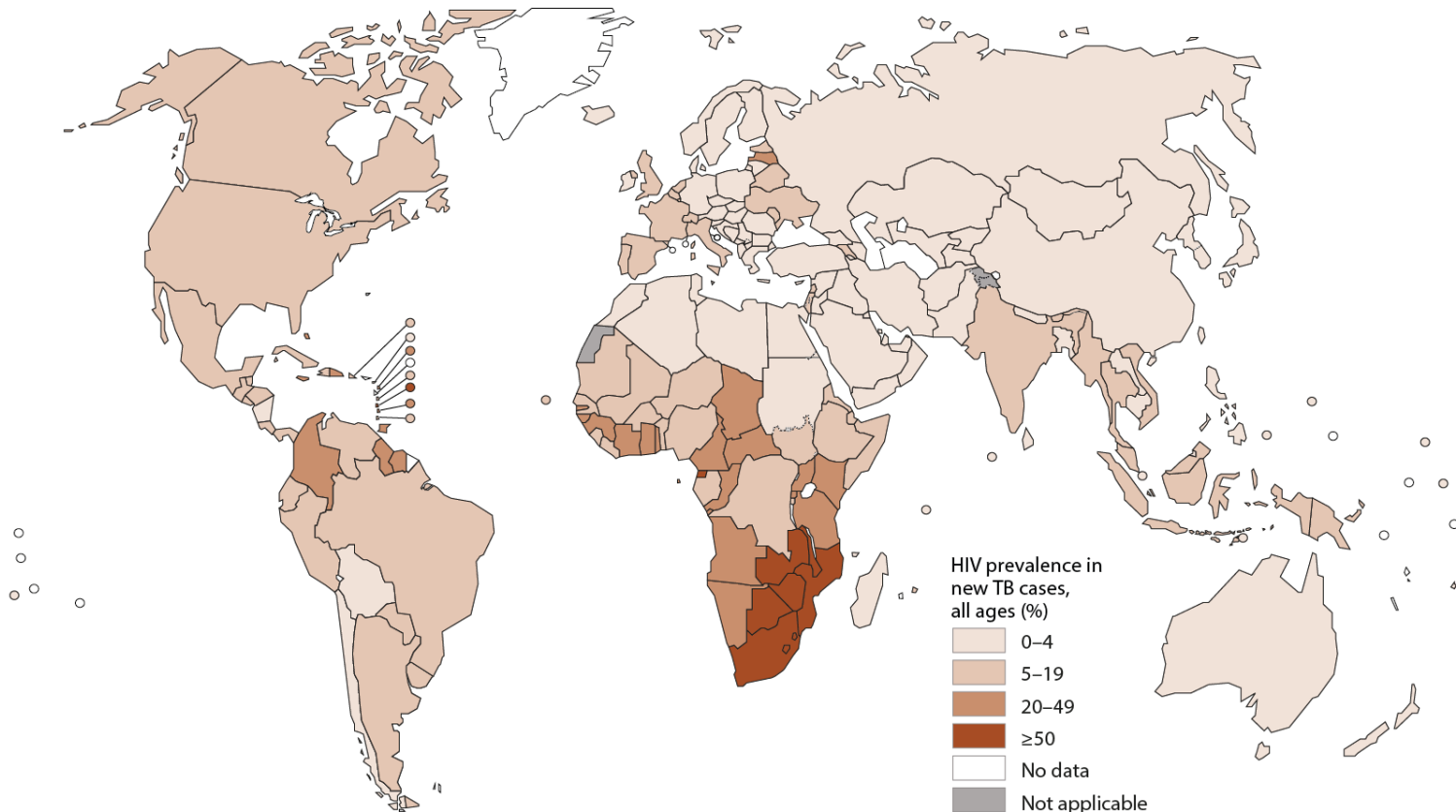


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## Estimated HIV prevalence in new and relapse TB cases, 2014



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# TB Case Rate per 100,000 VA and US: 2011-2015

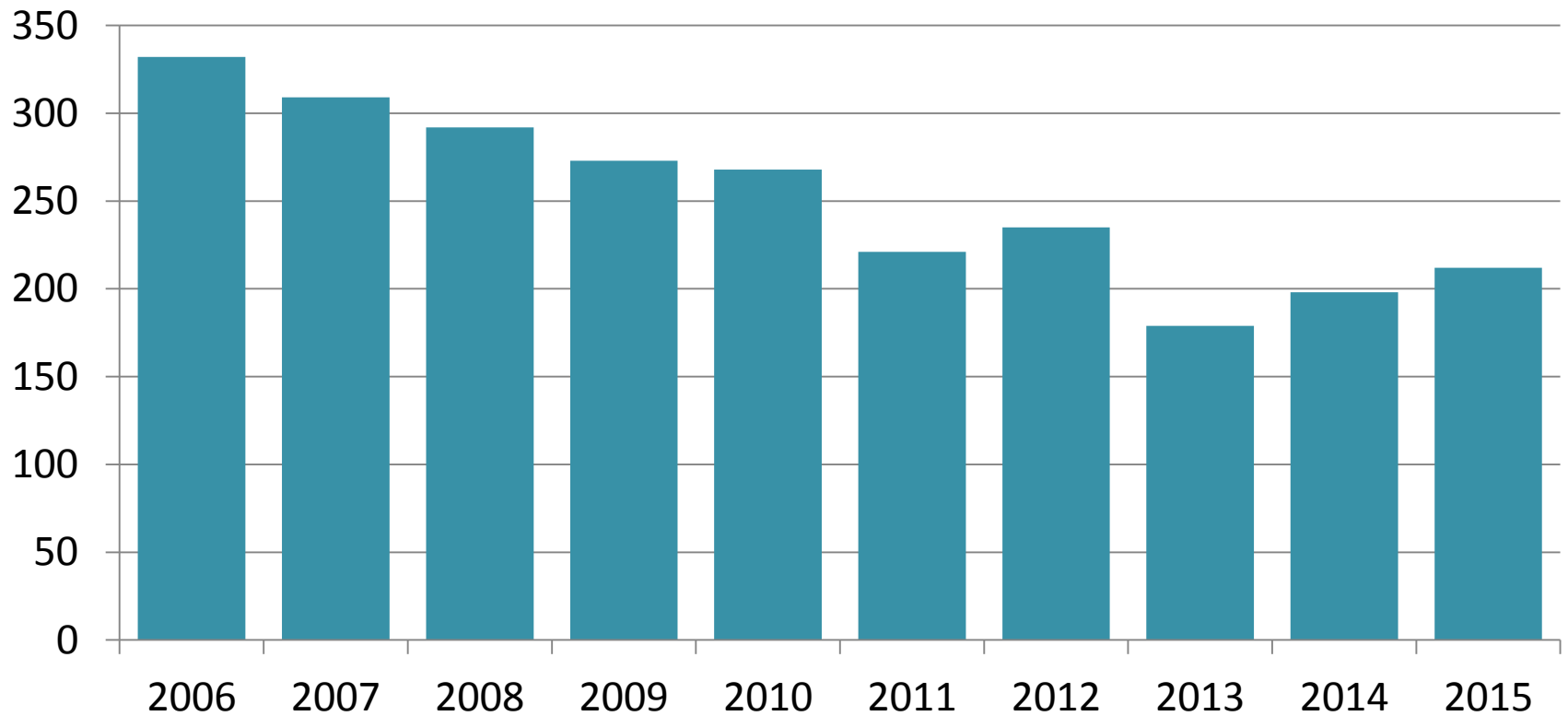
Year	Virginia TB Cases	Virginia TB Rate	US TB Cases	US TB Rate
2011	221	2.7	10,521	3.4
2012	235	2.9	9,951	3.2
2013	179	2.2	9,582	3.0
2014	198	2.4	9,412	3.0
2015	212	2.5	9,563	3.0



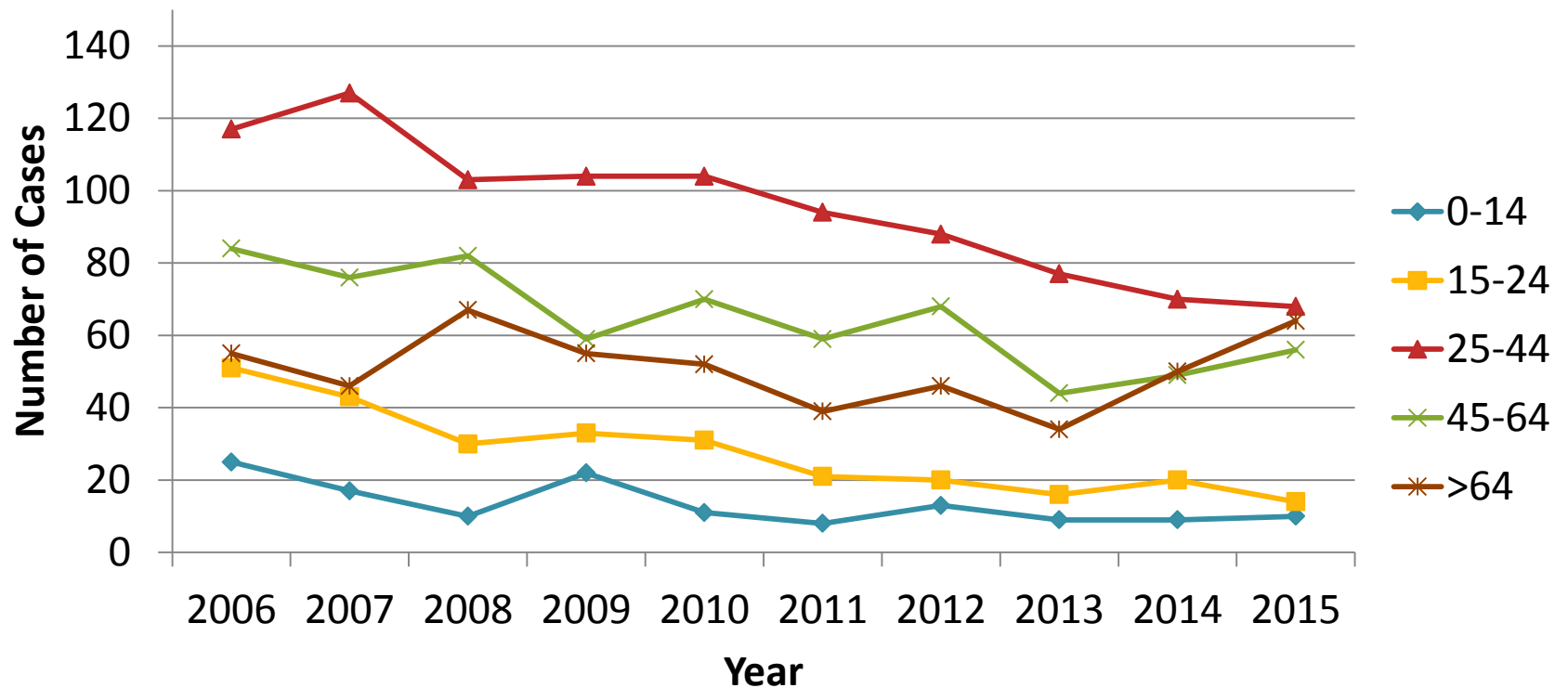
# TB in the United States: 2015

- 9, 536 cases reported
- 1.5% increase in the number of cases compared to 2014
- First increase in cases since 1992

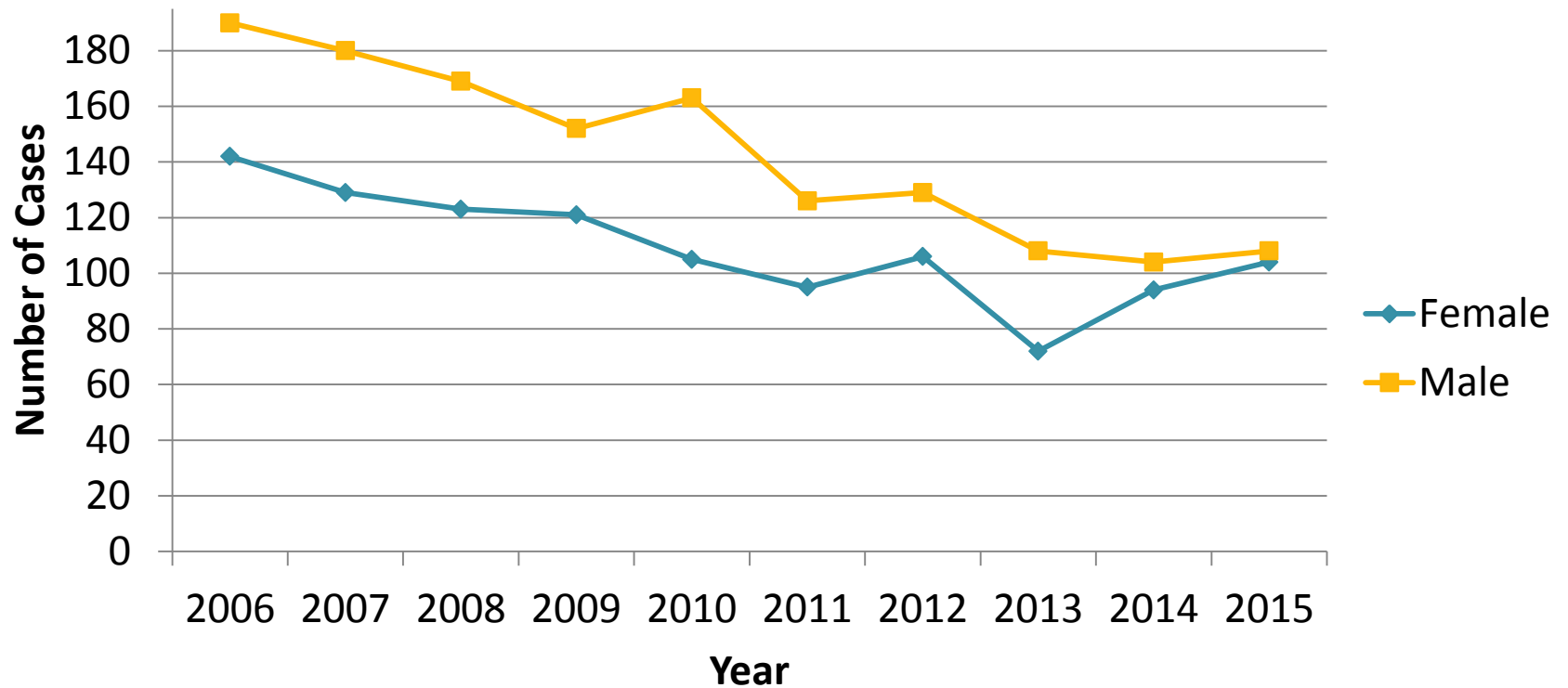
# TB in Virginia:2006-2015



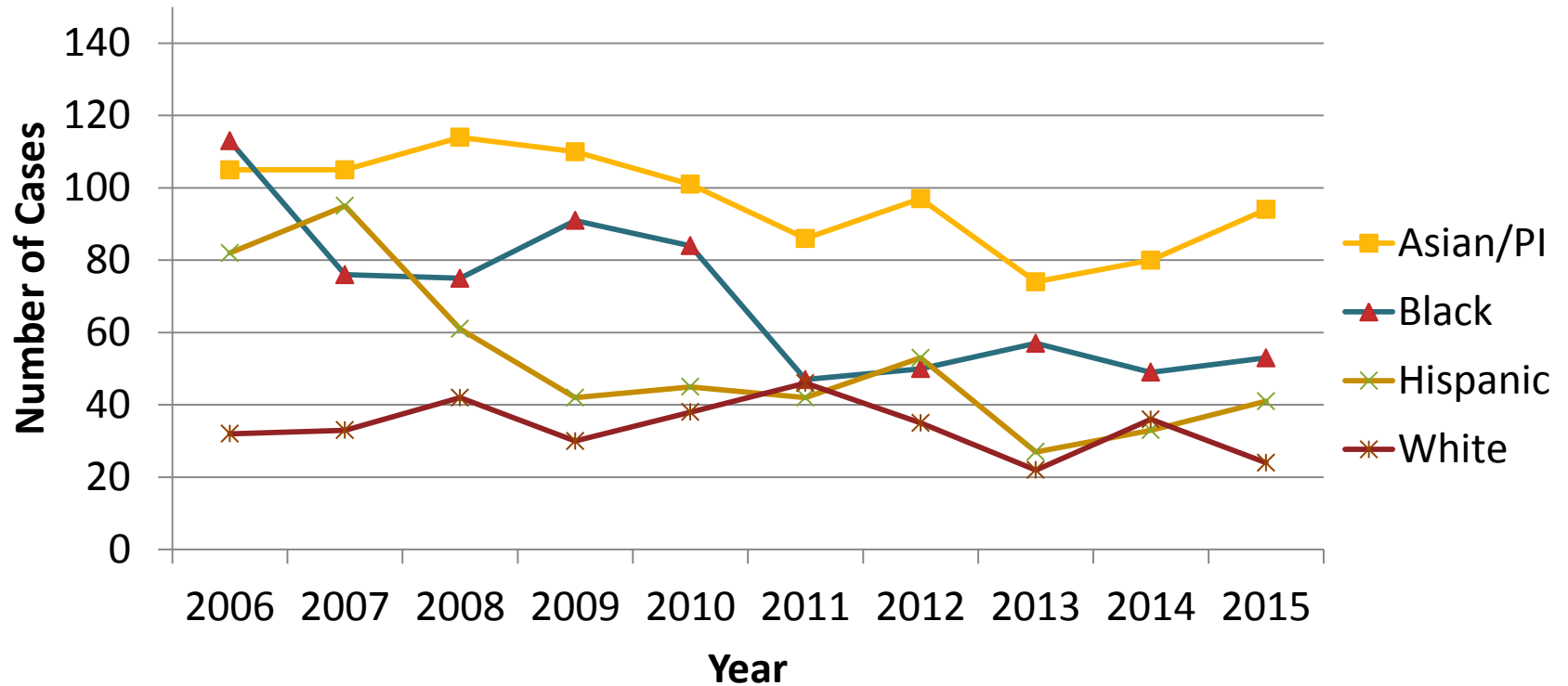
# VA TB Cases by Age Group: 2006-2015



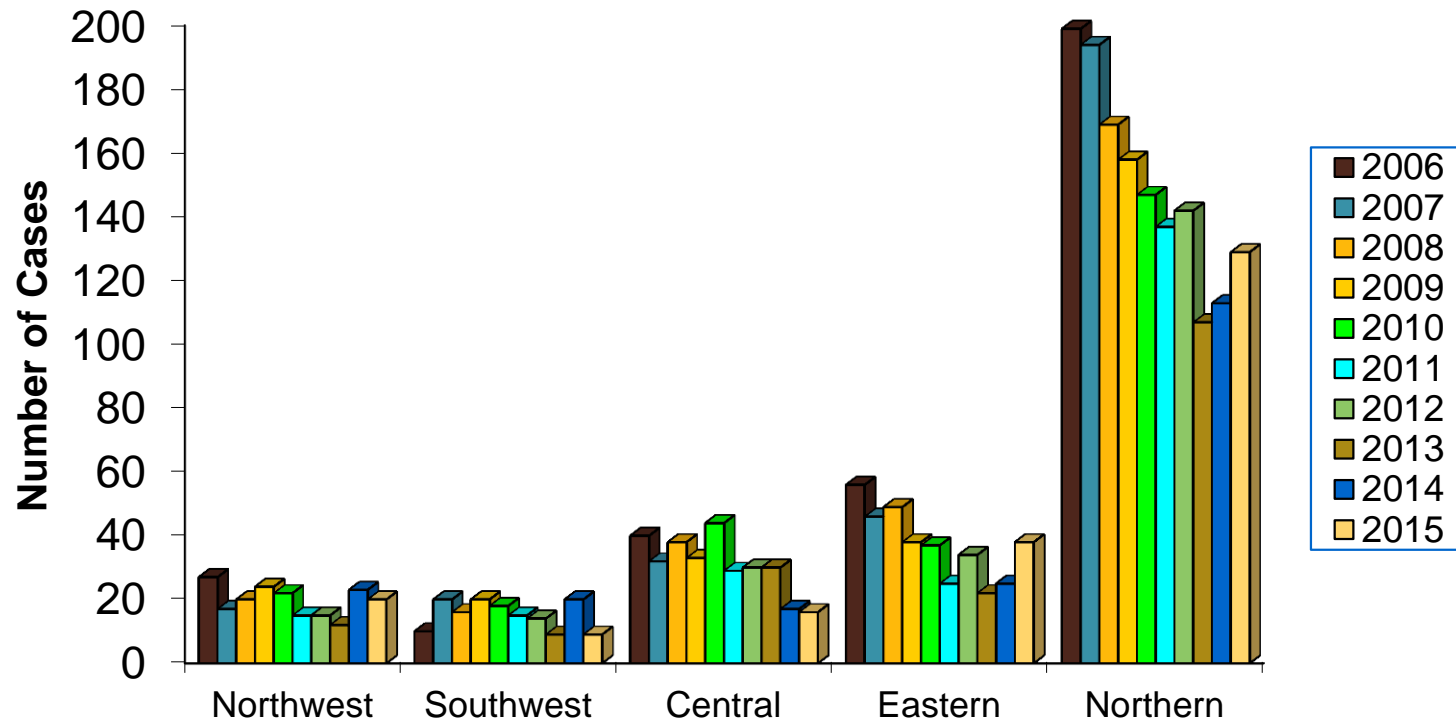
# VA TB Cases Sex: 2006-2015



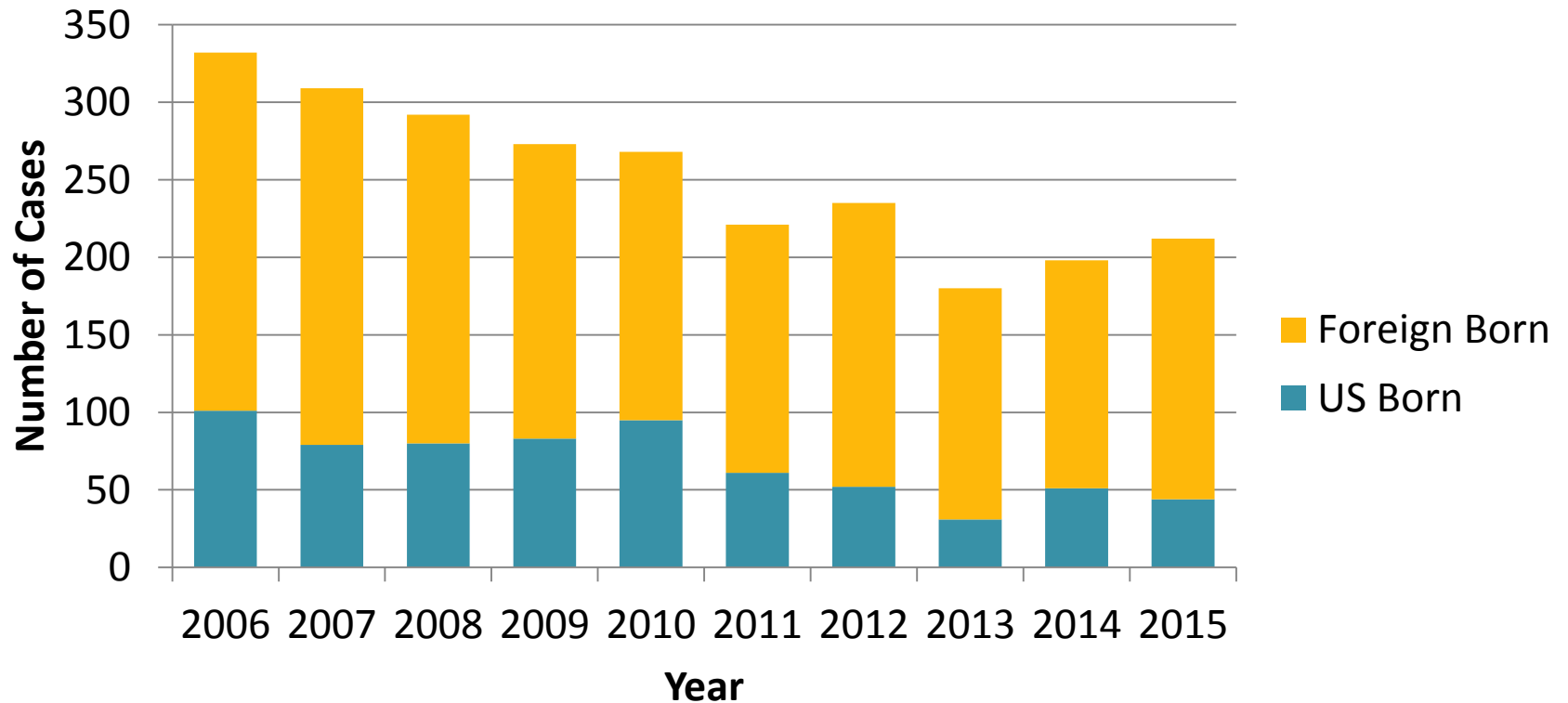
# VA TB Cases by Race/Ethnicity: 2006-2015



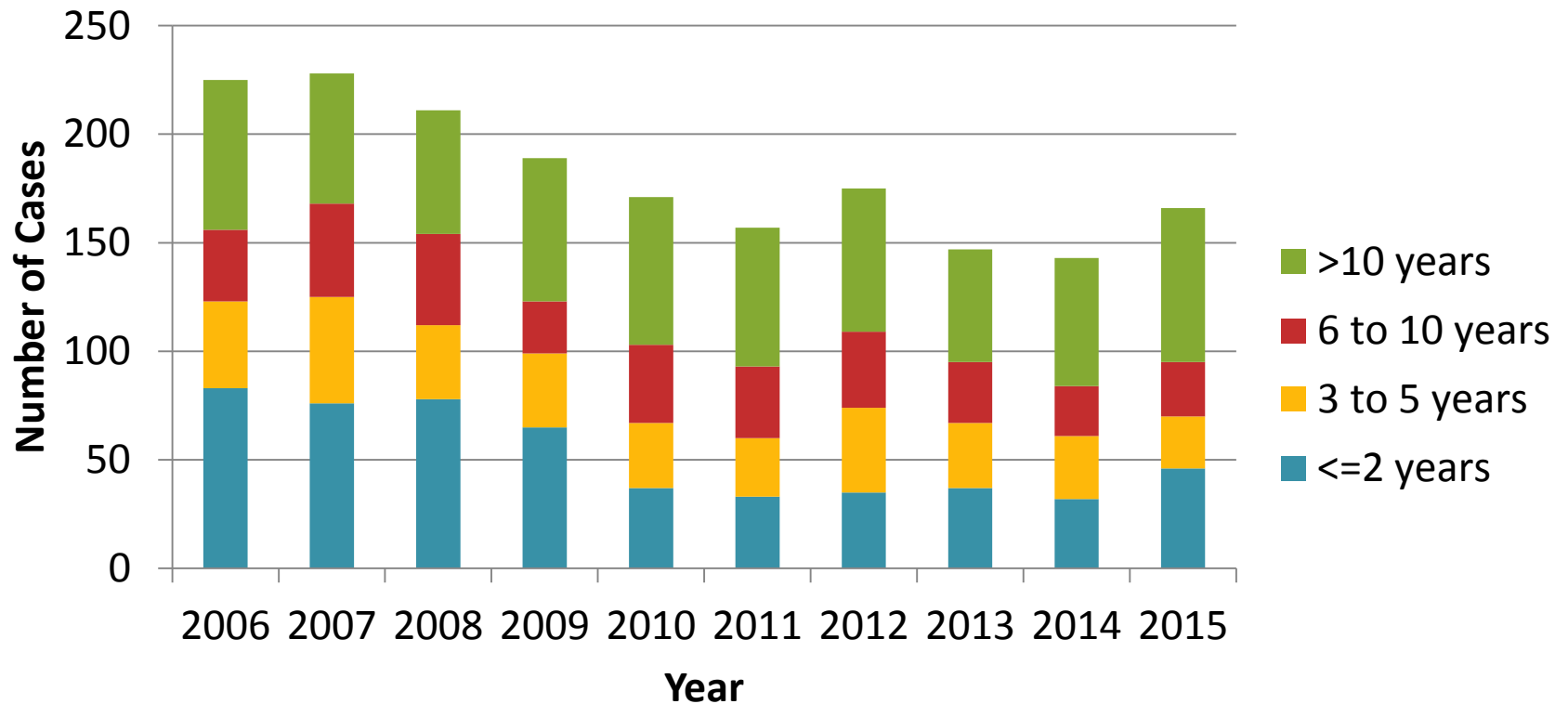
# VA TB Cases by Region: 2006-2015



# VA Foreign vs. US Born TB Cases: 2006-2015



# VA Foreign Born TB Cases by Years in the US at Start Treatment: 2006-2015





# VA TB Cases Top Five Countries of Origin: 2006-2015

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Viet Nam	Philippines	India	Ethiopia	Ethiopia	India	India	Ethiopia	India	Philippines
Mexico	El Salvador	Viet Nam	Viet Nam	Viet Nam	Ethiopia	Mexico	India	Viet Nam	India
Ethiopia	India	Philippines	India	India	Philippines	Philippines	Viet Nam	S. Korea	Ethiopia
Philippines	Bolivia	Ethiopia	Philippines	Philippines	Viet Nam	South Korea	Philippines	Ethiopia	Korea
India	Mexico	Mexico	Nepal	South Korea	Mex,China Nepal	Viet Nam	El Salvador	El Salvador & Philippines	Peru

# Thoughts for World TB Day 2016

- The World Health Organization has set ambitious goals with the END TB strategy announced in 2015
- Nationally the leveling of the decline in TB seen the last few years was marked by an increase in 2015
- Virginia saw a slight increase in TB cases among residents who recently arrived to the US as well as an increase among those who have resided here for more than 10 years